

packetizing the IR formatted data in accordance with universal serial bus (USB) data transport protocol to produce USB packets;

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transporting the USB packets via a USB port to produce transported USB packets;

depacketizing the transported USB packets to recapture the IR formatted data; and

decoding the IR formatted data in accordance with an IR data transport protocol based on the IR identifying information to recover data.

2. (amended) The method of claim 1 further comprises:

the IR data transport protocol including slow IR in accordance with an IrDA specified infrared data transport protocol, medium IR in accordance with the IrDA specified infrared data transport protocol, fast IR in accordance with the IrDA specified infrared data transport protocol, and amplitude shift keying (ASK); and

the USB data transport protocol including a slow speed USB data transport protocol and a fast speed USB data transport protocol.

3. (amended) The method of claim 1, wherein the IR decoding of the IR formatted data further comprises decoding an IR frame delineation information as the IR identifying information.

7. (amended) A data communication device comprises:

a processing module; and

memory operably coupled to the processing module, wherein the memory store operational instructions that, when processed by the processing module, cause the processing module to

receive infrared (IR) encoded and IR formatted data via an IR transmission path;

IR decode the IR encoded and IR formatted data to recapture IR formatted data, wherein the IR formatted data includes IR transport identifying information;

packetize the IR formatted data in accordance with universal serial bus (USB) data transport protocol to produce USB packets;

transport the USB packets via a USB port to produce transported USB packets;

depaketize the transported USB packets to recapture the IR formatted data; and

decode the IR formatted data in accordance with an IR data transport protocol based on the IR identifying information to recover data.

8. (amended) The data communication device of claim 7 further comprises:

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the IR data transport protocol including slow IR in accordance with an IrDA specified infrared data transport protocol, medium IR in accordance with the IrDA specified infrared data transport protocol, fast IR in accordance with the IrDA specified infrared data transport protocol, and amplitude shift keying (ASK); and

the USB data transport protocol including a slow speed USB data transport protocol and a fast speed USB data transport protocol.

9. (amended) The data communication device of claim 7, wherein the IR decoding of the IR formatted data further comprises decoding an IR frame delineation information as the IR identifying information.

13. (amended) A digital storage medium for storing operational instructions that, when read by a processing module, cause the processing module to transport data utilizing multiple data transport protocols, the digital storage medium comprises:

first storage means for storing operational instructions that cause the processing module to receive infrared (IR) encoded and IR formatted data via an IR transmission path;

second storage means for storing operational instructions that cause the processing module to IR decode the IR encoded and IR formatted data to recapture IR formatted data, wherein the IR formatted data includes IR transport identifying information;

third storage means for storing operational instructions that cause the processing module to packetize the IR formatted data in accordance with universal serial bus (USB) data transport protocol to produce USB packets;

fourth storage means for storing operational instructions that cause the processing module to transport the USB packets via a USB port to produce transported USB packets;

fifth storage means for storing operational instructions that cause the processing module to depacketize the transported USB packets to recapture the IR formatted data; and

sixth storage means for storing operational instructions that cause the processing module to decode the IR formatted data in accordance with an IR data transport protocol based on the IR identifying information to recover data.

14. (amended) The digital storage medium of claim 13 further comprises:

the IR data transport protocol including slow IR in accordance with an IrDA specified infrared data transport protocol, medium IR in accordance with the IrDA specified infrared data transport protocol, fast IR in accordance with the IrDA specified infrared data transport protocol, and amplitude shift keying (ASK); and

the USB data transport protocol including a slow speed USB data transport protocol and a fast speed USB data transport protocol.

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15. (amended) The digital storage medium of claim 13,
wherein the IR decoding of the IR formatted data further
comprises decoding an IR frame delineation information as
the IR identifying information.